

## **ABSTRACT**

A system and methods for discriminating an agent. In one embodiment of the present invention, the method includes the steps of (a) constructing a decision tree having a plurality of branches, each branch corresponding to at least one defined action, wherein each branch includes a plurality of successive branches, each successive branch corresponding to at least one defined action, (b) providing a conditioned environment sensitive to the agent, (c) obtaining data from response of the agent to the conditioned environment, (d) extracting features from the obtained data, (e) selecting a branch from the decision tree corresponding to the features, (f) performing on the features at least one defined action corresponding to the branch, (g) producing a classification of the agent, and (g) iteratively repeating steps of (d)-(g) until the agent is discriminated.